

Title	Genome mining coupled with OSMAC-based cultivation reveal differential production of surugamide A by the marine sponge isolate <i>Streptomyces</i> sp. SM17 when compared to its terrestrial relative <i>S. albidoflavus</i> J1074
Authors	Almeida, Eduardo L.;Kaur, Navdeep;Jennings, Laurence K.;Carrillo Rincón, Andrés Felipe;Jackson, Stephen A.;Thomas, Olivier P.;Dobson, Alan D. W.
Publication date	2019-09-26
Original Citation	Almeida, E. L., Kaur, N., Jennings, L. K., Carrillo Rincón, A. F., Jackson, S. A., Thomas, O. P. and Dobson, A. D. W. (2019) 'Genome Mining Coupled with OSMAC-Based Cultivation Reveal Differential Production of Surugamide A by the Marine Sponge Isolate <i>Streptomyces</i> sp. SM17 When Compared to Its Terrestrial Relative <i>S. albidoflavus</i> J1074', <i>Microorganisms</i> , 7(10), 394. (19pp.) DOI: 10.3390/microorganisms7100394
Type of publication	Article (peer-reviewed)
Link to publisher's version	https://www.mdpi.com/2076-2607/7/10/394/htm - 10.3390/microorganisms7100394
Rights	©2019 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (http://creativecommons.org/licenses/by/4.0/). - http://creativecommons.org/licenses/by/4.0/
Download date	2023-05-07 18:17:25
Item downloaded from	http://hdl.handle.net/10468/8824



University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

Supplementary Tables and Figures

Table S1. Genome statistics determined using the Prokka program, of the *Streptomyces* isolates genomes obtained from GenBank and determined to belong to the *albidoflavus* phylogroup.

Isolate	Number of bases	Number of CDSs	rRNA	tRNA	tmRNA
FR-008	7,090,955	6,126	21	79	1
J1074	6,841,649	5,847	21	77	1
KJ40	7,070,328	6,057	21	78	1
SM17	6,975,788	5,972	21	78	1
SM254	7,170,504	6,182	21	77	1

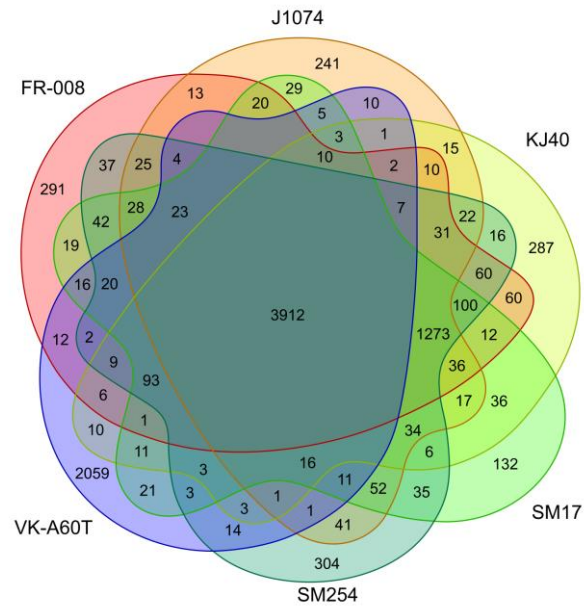


Figure S1. Venn diagram representing the presence/absence of groups of orthologous genes in the *albidoflavus* phylogroup genomes (namely strains FR-008, J1074, KJ40, SM17, and SM254), also including the *Streptomyces koyangensis* VK-A60T genome.

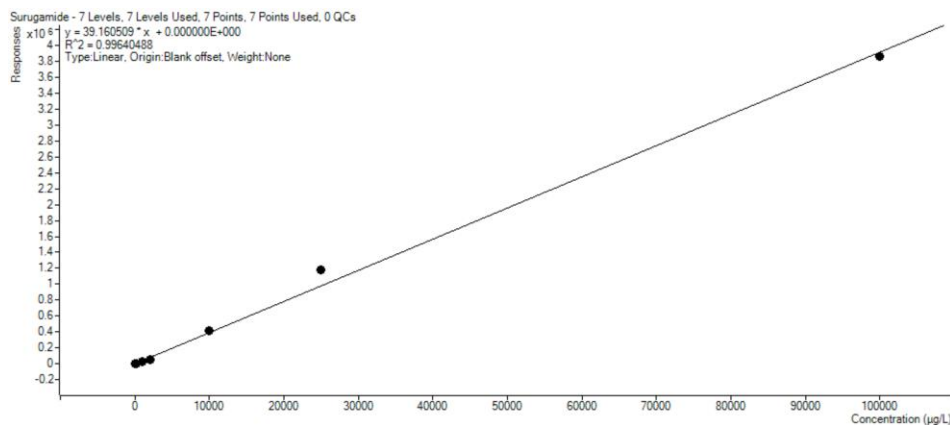


Figure S2. Calibration curve for surugamide A, determined using LC-MS and pure surugamide A at seven concentrations (0.1, 0.2, 1, 2, 10, 25, 100 mg/L).